



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3810
Job Sheet 170475



Part No: 646.3810

Job Qty: 24 ea

Part Name: Bracket



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/16/18

Job Tracking No:

Due Date: 2/8/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: DWG REV N/C IPP REV:A NEW ISSUE 12-10-22 JLM VERIFIED:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	24 Ea		1/24/18	0.00	0.00	Start Up Machining-1		J.C.L.
110	Mill Conv	24 pcs		1/25/18	0.00	7.87	Mill Conv 1		J.C.L.
120	QC	24 pcs		1/25/18	0.00	0.00	QC2 Machining-1		J.C.L. 18-01-30
130	QC	24 pcs		1/25/18	0.00	0.00	QC8 Machining-1		2/18/01/31
140	Outsource	24 pcs		2/8/18			ATG001-VC	Outsource 104	AT 18/03/01
150	Packaging	24 pcs		2/8/18	0.00	0.00	Packaging2		DAS
155	QC	24 pcs		2/8/18	0.00	0.00	QC5		38 MAR 02 2018
180	Packaging	24 pcs		2/8/18	0.00	0.00	Packaging3-1		6 MAR 02 2018 CCL 105
190	QC21-SA	24 Ea		2/8/18	0.00	0.00	QC21		21 MAR 05 2018

Part Op 110 - 1-Machine per DWG

Descriptions: 140 - Issue P/O to ATG : 038921 1- Hard Anodize Black and Prime as per Dwg 646.3800

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

JAN 31 2018

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M7075T6A1.00X0.75X0.125X0.060	3	95	0	0

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION		AGAINST DEPARTMENT/PROCESS							
	Rework	☐	Skid-tube	☐	Cross tube	☐	Water Jet	☐	Engineering	☐
	Scrap	☐	Machining	☐	Small Fab	☐	Prod. Eng. Coord.	☐	Quality	☐
	Use-as-is	☐	Thermoforming	☐	Finishing	☐	Rec/Store/Packaging	☐	Other	☐
	Suspected Unapproved	☐	Large Fab	☐	Composite	☐	Supplier	☐		
Date : _____		Step #: _____		QTY Effective : _____				MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By		
								Lead hand / Supervisor Approval Verification		

Root Cause		
Environment	☐	No Re-verification
Design	☐	Operator
Doc/Data	☐	Offset/Setup
Equip/Tooling	☐	Supplier
Handling/Pre	☐	Training
Material	☐	Use for Testing
Internal Transport	☐	Poor Information
Tribal Knowledge	☐	Rushing
LOA	☐	Product Improvement
Substation	☐	Process Improvement
Past Expiry Date	☐	Manufacturing Process
Misidentified	☐	Past Due
		OTHER : _____

Job No: 170475
Start up Operation 01/30/18

Change No: _____
Operation: _____
Revision: _____
PART NO: 646.3810
Original Serial #: S036739



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Bracket	1.000Inches ± 0.010	1.010 0.990		
2	Bracket	0.130Inches ± 0.010	0.140 0.120		
3	Bracket	0.060Inches ± 0.010	0.070 0.050		
4	Bracket	0.750Inches ± 0.010	0.760 0.740		
5	Bracket	0.090Inches ± 0.010	0.100 0.080		
6	Bracket	0.060Inches ± 0.010	0.070 0.050		
7	Bracket	3.500Inches ± 0.010	3.510 3.490		
8	Bracket	0.440Inches ± 0.010	0.450 0.430		
9	Bracket	0.880Inches ± 0.010	0.890 0.870		
10	Bracket	0.880Inches ± 0.010	0.890 0.870		
11	Bracket	0.880Inches ± 0.010	0.890 0.870		
12	Bracket	0.380Inches ± 0.010	0.390 0.370		

Plex 1/16/18 1:57 PM dart.lacelle.linda

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

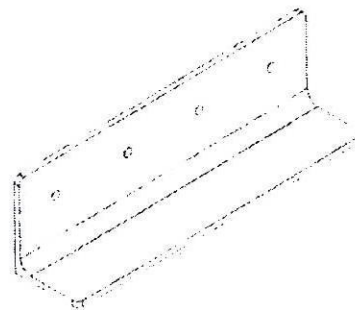
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

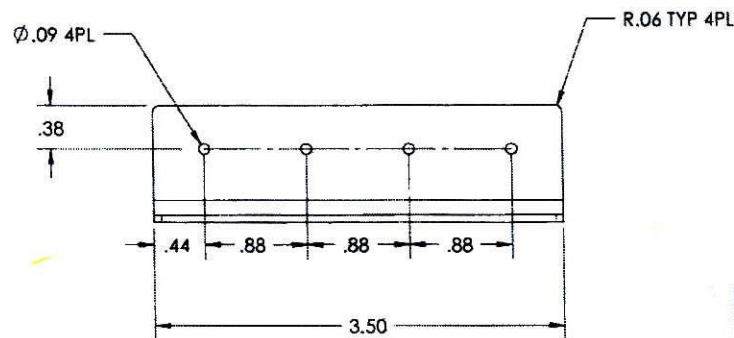
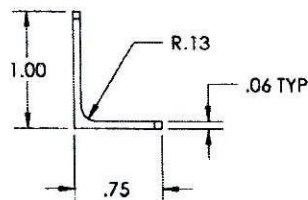
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NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III CLASS 2, COLOR BLACK;
CARDINAL 4860-50 PRETREATMENT PRIMER
PRIME IAW MIL-P-23377J TYPE I CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120



646.3810



UNINCORPORATED E.L. (3)

03/04/7

		646.3814	WIPER BRACKET	▲	▲
		646.3813	STRUT BRACKET	▲	▲
		646.3812	GUSSET BRACKET	▲	▲
		646.3811	RADIUS BLOCK	▲	▲
		646.3810	BRACKET	▲	▲
	QTY	FIND #	PART #	DESCRIPTION	MATL SPEC.
QTY			PARTS LIST		
NEXT ASSY (S):		APICAL INDUSTRIES			
646.4000		2608 TEMPLE HEIGHTS DR.			
		OCEANSIDE, CA. 92056-3512 (760) 724-5300			
		BRACKETS			
		SCALE NONE SHEET 1 OF 5			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			

Date :	Step #:	QTY Effective :	MRB (QS1042) Approval
Description Work Order Deviation		Disposition	
		Completed By	
		Lead hand / Supervisor Approval Verification	
		QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			



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K6A 1K7
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Tel (613) 632-5200

PURCHASE ORDER PO038921

				Items						
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
16	168945	RBH9928-12-5	Water sealant -Certificate of Conformity is required Clamp -Issue P/O to ATG PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	2/9/18	1 pcs	0 pcs	1 pcs	\$7.30/pcs	\$7.30
17	170102, RB	T102103-3	Adapter -Issue P/O to ATG: _____ ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1 WATER SEAL -Certificate of Conformity is required	Firmed	2/9/18	20 pcs	0 pcs	20 pcs	\$3.47/pcs	\$69.40
18	170336	RBT112800-3	PTO Seal Install Tool -Issue P/O to ATG: _____ ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1 WATER SEAL -Certificate of Conformity is required	Firmed	2/9/18	6 pcs	0 pcs	6 pcs	\$3.47/pcs	\$20.82
19	170362	RBW109-3101-58-1-7	Handle -Issue P/O to ATG: _____ ANODIZE COLOR BLUE, PER IAW MIL-A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	2/9/18	6 pcs	0 pcs	6 pcs	\$13.62/pcs	\$81.72
20	170378	RBW109-3101-58-2-3	Hammer Head -Issue P/O to ATG: _____ ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1, Water sealant -Certificate of Conformity is required	Firmed	2/9/18	9 pcs	0 pcs	9 pcs	\$3.47/pcs	\$31.23
21	170475	646 3810	Bracket Issue P/O to ATG: _____ Hard Anodize Black and Prime as per Dwg 646 3800	Firmed	2/9/18	24 pcs	0 pcs	24 pcs	\$7.67/pcs	\$184.08
22	170478	646 3813	AS350 Strut Bracket Issue P/O to ATG: _____ Hard Anodize Black and Prime as Per Dwg 646 3800	Firmed	2/9/18	16 pcs	0 pcs	16 pcs	\$7.22/pcs	\$115.52
23	170545	RBW109-3101-58-1-7	Handle -Issue P/O to ATG: _____ ANODIZE COLOR BLUE, PER IAW MIL-A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	2/9/18	6 pcs	0 pcs	6 pcs	\$13.62/pcs	\$81.72
24	170548	646 9910	Struts Issue P/O to ATG: _____	Firmed	2/16/17	29 pcs	0 pcs	29 pcs	\$14.52/pcs	\$421.08

DAS
38
DAS
11
9-89

18/02



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914688

Date: 28-Feb-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Diane Baker
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
24 ea	Part: 646.3812 Gusset Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22461		Rev: N/C PO: PO038921 Line: 1
1 ea	Part: D4970-3 Windshield Deflector - Upper Hard Anodize, IAW MIL-A-8625 Type III Class 2, Color Black Job: 22462		Rev: C PO: PO038921 Line: 2
24 ea	Part: 646.3810 Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22481		Rev: NC PO: PO038921 Line: 21
16 ea	Part: 646.3813 AS350 Strut Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22482		Rev: NC PO: PO038921 Line: 22
16 ea	Part: 646.9910 Struts Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22484		Rev: NC PO: PO038921 Line: 24
Made in Canada.			

Made in Canada.



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914688

Date: 28-Feb-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Diane Baker
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
3 ea	Part: D4822-2 Upper Right Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (.1 - 2 mils) per drawing. Job: 22463	Rev: C PO: PO038921	Line: 3
7 ea	Part: 647.0110 Roof Doubler Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22468	Rev: A PO: PO038921	Line: 8
CERTIFICATE OF CONFORMANCE A.T.G. Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>28/2/18</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G. Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. Made in Canada.			